FIG. 1
1 OBJECT
2 X -RAY TUBE
3 DIAPHRACM
3a,-3b SHIELDING BODY
4 DIAPHRACM VARYING UNIT
6 IMAGE PROCESSING UNIT
61 STATISTICAL DATA PROCESSING UNIT
62 LINE NOISE CORRECTION UNIT
7 IMAGE DISPLAY UNIT
8 ARM
9 X RAY CENERATION UNIT
10 OPERATION UNIT
11 CONTROL UNIT
FIG. 2
X-RAY
3 DIAPHRAGM
OPENING

52,53-SHIELDED-PORTION

51 EFFECTIVE VISUAL FIELD

FIG. 3

STEP 31: SET X RAY CONDITION (FLUOROSCOPY) - AND DIAPHRACM

POSITION

STEP 32: IRRADIATE OBJECT WITH X RAYS

STEP 33: DETECT X RAYS PASSED THROUGH OBJECT

STEP 34: PERFORM STATISTICAL PROCESSING ON DATA OF SHIELDED

PORTION

STEP 35: PERFORM LINE NOISE CORRECTION PROCESSING ON

FLUOROSCOPIC IMAGE

STEP-36: DISPLAY FLUOROSCOPIC IMAGE

FIG. 4

6 IMAGE PROCESSING UNIT

61 STATISTICAL DATA PROCESSING UNIT

62 LINE NOISE CORRECTION UNIT

63 CORRECTION EXECUTION SWITCHING UNIT

7 IMAGE DISPLAY UNIT

10 OPERATION UNIT

11 CONTROL UNIT

FIC. 5

STEP 51: SET X-RAY CONDITION (ARBITRARY) AND DIAPHRACM

POSITION

STEP 52: IRRADIATE OBJECT WITH X-RAYS

STEP 53: DETECT X-RAYS PASSED THROUGH OBJECT

STEP-54: X-RAY CONDITION = FLUOROSCOPY?

STEP-55: PERFORM STATISTICAL PROCESSING ON DATA OF SHIELDED

PORTION

STEP 56: PERFORM LINE NOISE CORRECTION PROCESSING ON

FLUOROSCOPIC IMAGE

STEP 57: DISPLAY X-RAY IMACE

FIG. 6

6 IMAGE PROCESSING UNIT

61 STATISTICAL DATA PROCESSING UNIT

62 LINE NOISE CORRECTION UNIT

64 SCATTERED RAY ELIMINATION PROCESSING UNIT

7 IMAGE DISPLAY UNIT

10 OPERATION UNIT

11 CONTROL UNIT

FIG. 7

STEP 71: SET X-RAY CONDITION (FLUOROSCOPY) AND DIAPHRACM

POSITION

STEP 72: IRRADIATE OBJECT—WITH X-RAYS IN ACCORDANCE WITH X-RAY

CONDITION (FLUOROSCOPY) AT SET DIAPHRAGM POSITION

STEP 73: DETECT X-RAYS PASSED THROUGH OBJECT-

STEP 74: SCATTERED X RAY ELIMINATION?

STEP 75: ELIMINATE SCATTERED X-RAY PORTION FROM SHIELDED

PORTION

STEP 76: PERFORM STATISTICAL PROCESSING ON DATA OF SHIELDED

PORTION

STEP 77: PERFORM LINE NOISE CORRECTION PROCESSING ON

FLUOROSCOPIC IMAGE

STEP 78: DISPLAY X RAY IMAGE

FIC. 8

1 OBJECT

2 X-RAY TUBE

3 DIAPHRACM

3a, 3b SHIELDING BODY

4 DIAPHRAGM VARYING UNIT

6 IMAGE PROCESSING UNIT

61 STATISTICAL DATA PROCESSING UNIT

62 LINE NOISE CORRECTION UNIT

7 IMAGE DISPLAY UNIT

8 ARM

9 X RAY GENERATION UNIT

10 -- OPERATION UNIT

11 CONTROL UNIT

12 DIAPHRACM

FIG. 9

STEP 91: SET X RAY CONDITION (RADIOGRAPHY) AND DIAPHRACM

POSITION OF FIRST DIAPHRACM

STEP 92: IRRADIATE OBJECT TO BE EXAMINED WITH X-RAYS-IN

ACCORDANCE WITH X-RAY CONDITION (RADIOGRAPHY) AT SET

DIAPHRAGM-POSITION

STEP 93: DETECT X-RAYS PASSED THROUGH OBJECT TO BE EXAMINED

STEP 94: DETECT SHIELDED PORTION DATA OF FIRST DIAPHRACM

STEP 95: IDENTIFY SCATTERED X-RAY PORTION

STEP 96: INSERT SECOND DIAPHRAGM-INTO SCATTERED X-RAY PORTION

STEP 97: PERFORM STATISTICAL PROCESSING ON DATA OF SHIELDED

PORTION

STEP 98: PERFORM LINE NOISE CORRECTION PROCESSING ON FLUOROSCOPIC IMAGE

STEP 99: DISPLAY X-RAY IMAGE